

# MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY, GENETICS, GROWTH,

DEVELOPMENT AND PHYSICAL ANTHROPOLOGY

Monday, July 04, 2005

Time: 3 hours

Max Marks: 100

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**✍ Answer ALL questions**

**✍ Illustrate your answers with diagrams, flow charts wherever appropriate**

1. Describe the prenatal and post natal growth of the mandible in detail.

(30 marks)

2. Discuss the role of heredity in Orthodontics.

(30 marks)

3. Write essays on:

3A. Maturation of swallowing pattern.

3B. Post-adolescent changes in the dentition and facial tissues.

(40 marks)

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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2005

**SUBJECT: PAPER II – CHILD PSYCHOLOGY, ETIOLOGY, CLASSIFICATION, DIAGNOSTIC  
PROCEDURE & TREATMENT PLANNING IN ORTHODONTICS**

Tuesday, July 05, 2005

Time: 3 hours

Max Marks: 100

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✍ **Answer ALL questions**

✍ **Illustrate your answer with diagrams, flow charts wherever necessary.**

1. Discuss the various factors to be considered for treatment planning in a borderline arch-length discrepancy case.

(30 marks)

2. Discuss template analysis and the role of contemporary orthodontic diagnosis and treatment planning.

(30 marks)

3A. Non-compliant patient.

3B. Localization of impacted canines.

(40 marks)

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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER III – CLINICAL ORTHODONTICS AND DENTAL MATERIALS

Wednesday, July 06, 2005

Time: 3 hours

Max Marks: 100

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✍ Answer ALL questions

✍ Illustrate your answers with diagrams, flow charts wherever appropriate.

1. Discuss the mechanism of distalising the canine in segmented arch system.

(30 marks)

2. How will you select the case for functional jaw orthopedic correction? Discuss.

(30 marks)

3. Write short notes on:

(40 marks)

3A. Permanent retention

3B. Bonding brackets on Ceramic Crown



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MDS (ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2005

**SUBJECT: PAPER IV – ESSAY**

Thursday, July 07, 2005

Time: 3 hours

Max Marks: 100

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*✍* **Draw diagrams wherever necessary.**

Write an essay on:

Ortho-Perio relationship.

***OR***

Biology of tooth movement.



# MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

## MDS (ORTHODONTICS) DEGREE EXAMINATION – DECEMBER 2005

**SUBJECT: PAPER I – APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY,  
GENETICS, GROWTH, DEVELOPMENT AND PHYSICAL ANTHROPOLOGY**

Monday, December 05, 2005

Time: 3 Hrs.

Max Marks: 100

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✍ **Answer ALL questions.**

✍ **Illustrate your answers with diagrams, flow charts wherever appropriate.**

1. Discuss longitudinal growth studies and their role in orthodontics.

(30 marks)

2. Discuss the role of neuroectodermal cells in the development of the face.

(30 marks)

3. Write essays on:

3A. Composition of saliva.

3B. Pubertal growth spurt.

(40 marks)

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(Deemed University)

## MDS (ORTHODONTICS) DEGREE EXAMINATION – DECEMBER 2005

**SUBJECT: PAPER II – CHILD PSYCHOLOGY, ETIOLOGY, CLASSIFICATION,  
DIAGNOSTIC PROCEDURE & TREATMENT PLANNING IN ORTHODONTICS**

Tuesday, December 06, 2005

Time: 3 Hrs.

Max Marks: 100

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✍ **Answer ALL questions**

✍ **Illustrate your answer with diagrams, flow charts wherever necessary.**

1. Discuss patient motivation and expectations and it's role in treatment planning.

(30 marks)

2. Discuss the various theories of tooth movement and the effect of force duration and decay on tooth movement.

(30 marks)

3. Write short notes on:

3A. I O T N

3B. Ackerman – proffit classification system.

(40 marks)

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(Deemed University)

## MDS (ORTHODONTICS) DEGREE EXAMINATION – DECEMBER 2005

### SUBJECT: PAPER III – CLINICAL ORTHODONTICS AND DENTAL MATERIALS

Wednesday, December 07, 2005

Time: 3 Hrs.

Max Marks: 100

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✍ **Answer ALL questions**

✍ **Illustrate your answers with diagrams, flow charts wherever appropriate.**

1. Discuss “guidance of occlusion” and its relevance to contemporary orthodontic practice.

(30 marks)

2. Describe the role of the orthodontist in treatment of cleft lip / palate.

(30 marks)

3A. One-couple systems in orthodontics.

3B. V- bend mechanics.

(40 marks)

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(Deemed University)

## MDS (ORTHODONTICS) DEGREE EXAMINATION – DECEMBER 2005

**SUBJECT: PAPER IV – ESSAY**

Thursday, December 08, 2005

Time: 3 Hrs.

Max Marks: 100

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*✍* **Draw diagrams wherever necessary.**

Write an essay on:

Esthetic orthodontic appliances.

**OR**

Management of impacted teeth.

